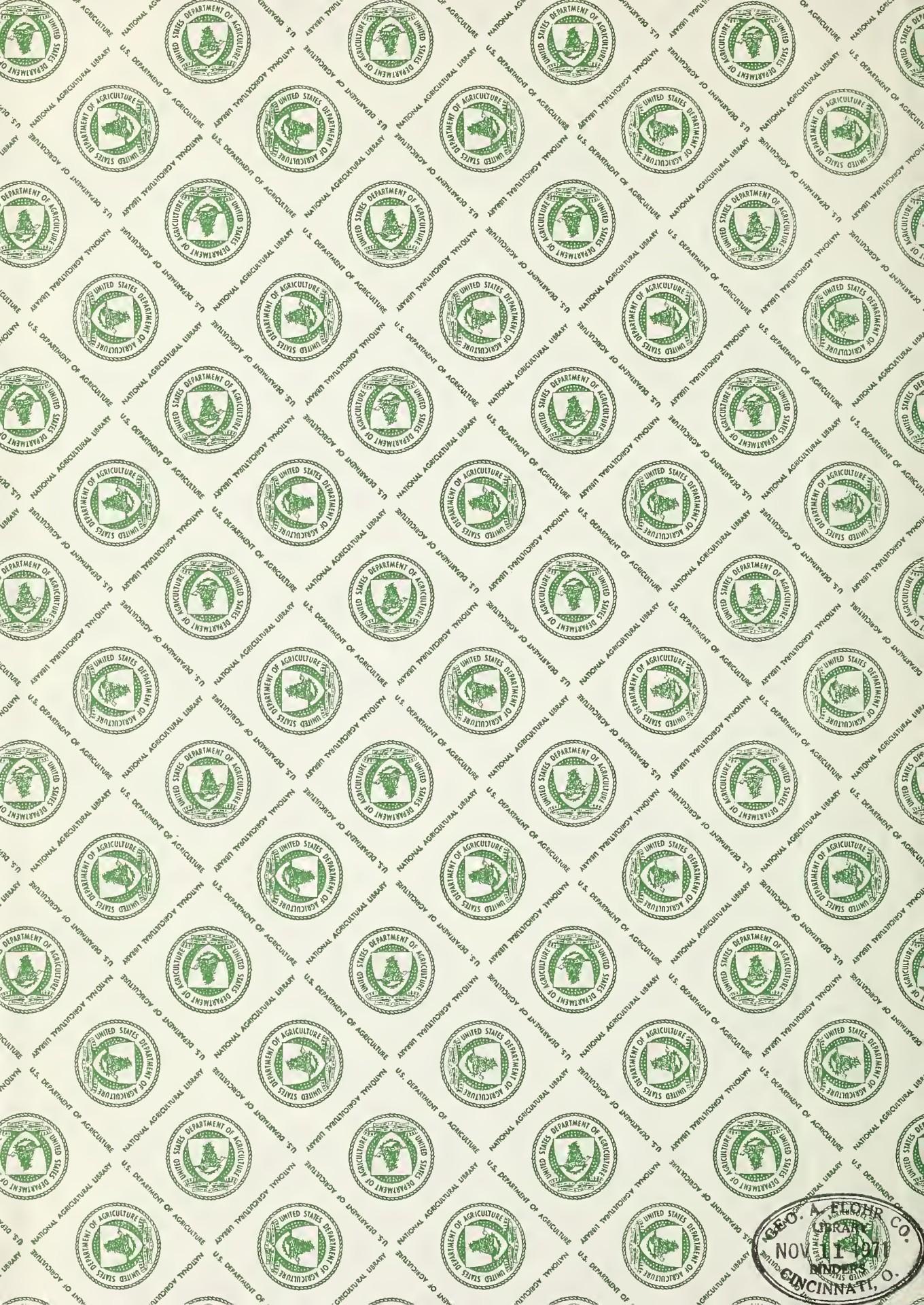


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SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR

OREGON

RECEIVED

MAY 6 - 1957

As of January last, 1937

Issued February 11, 1957

The following data pertaining to snow surveys and irrigation water supply forecasts are provided by Bureau of Agricultural Engineering of the U. S. Department of Agriculture in cooperation with the Oregon State Engineer, other Federal bureaus and local organizations. 1/

Status of precipitation as of October 1 to date:

Month	Oct.		Nov.		Dec.		Jan.		Period	
	Section	P	D	P	D	P	D	P	D	P
S.E.	0.00	-0.64	0.04	-0.82	0.51	-0.43	0.8	0.0	1.38	-1.89
S.C.	0.00	-0.89	T	-1.53	0.78	-0.77	1.6	-0.3	2.38	-3.49
N.C.	0.02	-0.61	0.28	-0.92	1.00	-0.41	1.3	-0.2	2.60	-2.17
Col. Riv.	.04	-0.81	0.07	-0.71	1.35	-0.31	1.4	0.0	2.86	-1.83
Wal. Mts.	0.13	-1.22	T	-0.81	1.59	-0.45	1.9	+0.2	3.62	-2.46
Blue Mts.	0.11	-1.29	0.12	-1.82	1.95	-0.24	1.8	+0.1	3.98	-3.34
Southern	0.00	-2.08	0.04	-3.94	3.46	-0.69	3.9	-0.4	7.40	-7.11
Area									3.46	-3.18

P - Precipitation

D - Departure

- S.E. - Southeastern Oregon range lands, Harney and Malheur Counties
- S.C. - Southcentral Oregon range lands, Lake County and Klamath County, except the Cascade Mountains.
- N.C. - Northcentral Oregon wheat and range lands, Crook, Deschutes, Jefferson, Wheeler and part of Grant Counties.
- Col. Riv. - Columbia River area wheat and range lands, Gilliam, Morrow, Sherman, Wasco, and part of Umatilla Counties.
- Wal. Mts. - Wallowa Mountain area forest and range lands, Wallowa and part of Baker County.
- Blue Mts. - The Blue Mountain forest and range area, Union and parts of Baker, Grant and Umatilla Counties.
- Southern - Southern Oregon irrigated section, Jackson and Josephine Counties.

Note: Data for the last month shown above are preliminary only, as they are based on a few stations only. Data for earlier months have been corrected to include all the stations in climatological data for the area.

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Status of Reservoir storage as of November 1 to date:

Eastern Oregon: Slight storage increase since November 1. Storage is about the same now as last year at this time except in Owyhee Reservoir, which is now about 90% full as against 54% full last year at this time.

Central Oregon: No appreciable storage increase since November 1 except in Crane Prairie Reservoir, which is 64% full. Storage is about the same now as last year at this time.

Southern Oregon: No appreciable storage increase since November 1 except in Fish Lake Reservoir which is 62% full. Storage, on the average, is about 12% better than last year at this time.

A number of reservoirs throughout the state are practically dry at this time.

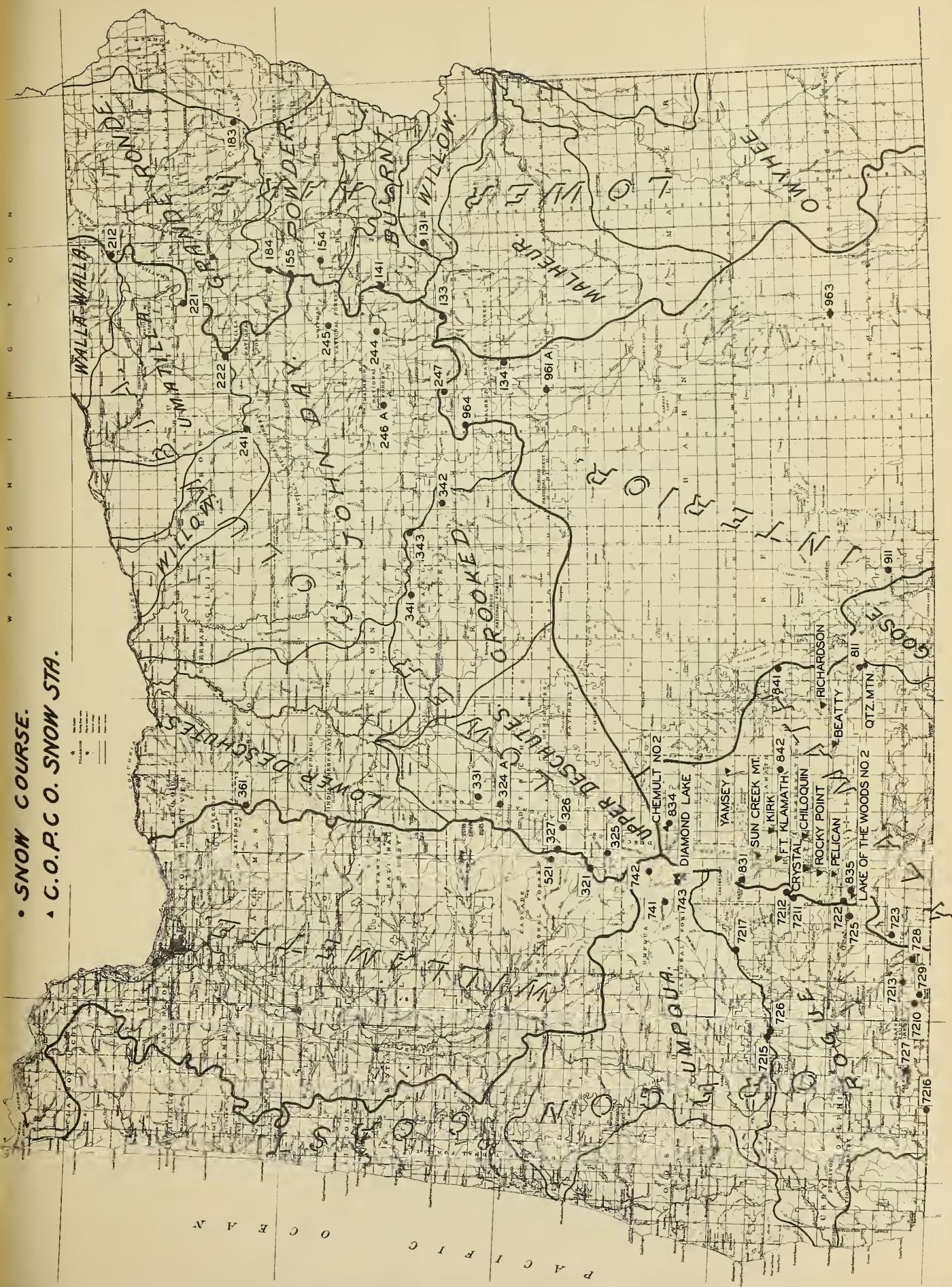
Comparison of snow cover with that of previous years:

For Oregon as a whole the snow-water content above 5000 feet averages about 70% of that found at the same time last year. January precipitation occurred largely in the form of snow at lower elevations, resulting in a greater average snow depth at lower elevations than usual.

Generally heavy storms early in February have increased the snow cover somewhat over the amounts reported herein for the last part of January.

Soil of the watersheds, in general, is unfrozen and very dry.

• SNOW COURSE.
• C.O.P.C.O. SNOW STA.



Snow Cover Measurements

-4-

Tributary Basins Primary & Secondary & Snow Courses	Number : Sec.	Twp. Range	Elev. : Survey	Depth : (Inches)	Average : Water	Snow : Depth	Remarks
OWYHEE RIVER							
Silver City	Idaho	6	5S	3W	6400	1-30	37.9
MALHEUR RIVER							
Blue Mtn. Spring	133	21	15S	35E	5900	1-29	42.5
Rock Spring	134	23	18S	32E	5100	1-30	21.1
BURNT RIVER							
Blue Mountain Summit	141	6	12S	36E	5008	1-30	30.3
POWDER RIVER							
Bourne	154	33	3S	37E	5800	1-30	41.6
GRANDE RONDE RIVER							
Aeroid Lake	183	16	4S	45E	6500	1-24	13.1
LOWEE RIVER							
Toll Gate	212	33	4N	38E	6300	1-30	60.3
UMATILLA RIVER							
Emigrant Springs	222	29	1N	35E	4600	1-27	34.5
Meacham	221	24	1S	35E	4600	1-27	36.9

Tributary Basins	Number:	Location	Elev.	Survey Date	Average (Inches)	Cover	Measurements
(Primary & Secondary & Snow Courses)		Sec. Twp. Range		(Inches)	Water Depth (Inches)	Remarks	
				: 1937	: 1937	: 1936	

JOHN DAY RIVER

Blue Mountain Spring	133	21	15S	35E	5900	1-29	42.5	8.2	13.4	G.D.
Beech Creek Summit	246A	4	12S	30E	4912	1-27	26.4	4.9	4.9	
Izze Summit	964	23	16S	29E	5293	1-31	27.4	5.5	9.2	
Olive Lake	245	14	9S	33 ¹ E	6000	1-30	43.8	8.2	15.6	
Starr Ridge	247	20	15S	31E	5193	1-31	22.3	4.4	5.0	
Blue Mountain Summit	141	6	12S	36E	5900	1-30	30.3	6.3	7.8	G.D.

DESCHUTES RIVER

Tamarack	342	8	15S	25E	4600	1-29	25.8	4.9	N.R.	ENR.

HARNEY BASIN

Idylwild Camp	961A	33	20S	31E	5200	1-28	19.2	3.6	3.4	
Izze Summit	964	28	16S	29E	5293	1-31	27.4	5.5	9.2	
Rock Spring	134	25	18S	32E	5100	1-30	21.1	4.2	8.7	
Starr Ridge	247	20	15S	31E	5193	1-31	22.8	4.4	5.6	

W E S T C O A S T D R A I N A G E

ROGUE RIVER										
Big Red Mountain	729	33	40S	1W	6500	1-30	63.8	15.0	27.6	
Billie Creek Divide	722	17	36S	5E	6000	1-25	57.3	17.1	28.0	G.N.F.; G.D.
Fish Lake	725	3	37S	4E	4865	1-24	40.2	10.1	17.1	G.N.F.
Grayback Peak	727	9	40S	5W	6000	2-7	84.2	21.7	22.1	G.N.F.; G.D.
Little Red Mountain	7210	25	40S	2W	6500	1-30	47.4	11.4	15.3	G.N.F.
Siskiyou Summit	728	17	40S	2W	4630	1-28	42.0	8.6	6.5	G.N.F.
Wagner Butte	7213	1	40S	1W	6800	1-29	47.1	11.6	17.9	G.N.F.

